

171642

# SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 3/15/2004 This is an experimental format - Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 11/15/05 Serial # 10/658,139 Priority Application Date \_\_\_\_\_  
 Your Name M. Lewis Examiner # \_\_\_\_\_  
 AU 2899 Phone 202-1838 Room 5A30  
 In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search, please prioritize in order of need.

*Need before 11/23*

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: \_\_\_\_\_

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. \_\_\_\_\_

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature \_\_\_\_\_ Other \_\_\_\_\_  
 Secondary Refs ☒ Foreign Patents \_\_\_\_\_  
 Teaching Refs \_\_\_\_\_

What is the topic, such as the **novelty**, motivation, utility, or other specific facets defining the desired **focus** of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 7-11 & 13-19  
Laterally Diffused Metal Oxide Semiconductor device  
Problem: See pages 2-4 in specification  
Solution: 11 11 4-6 in specification  
 - Multiple gate fingers  
 - RF power LDMOS transistor  
 - See amended claim 7 changes  
 - See new independent claim 13.  
US 6,744,117  
5,369,045

Staff Use Only

Number

Nonuser Phone: \_\_\_\_\_

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 11/17/05

Date Completed: \_\_\_\_\_

Searcher Prep/Rev Time: 140

Online Time: 145

Type of Search

Structure (#) \_\_\_\_\_

Bibliography ☒

Litigation \_\_\_\_\_

Fulltext ☒

Patent Family ☒

Other REV.

Vendors

WPN \_\_\_\_\_

Dialog ☒

Questel/Orbit \_\_\_\_\_

Lexis-Nexis \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Other WEST

11/17/2005

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File 342:Derwent Patents Citation Indx 1978-05/200572

(c) 2005 Thomson Derwent

S1 3 PN=(US 6744117 OR US 5369045 OR US 5681761)

SYSTEM:OS - DIALOG OneSearch

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200573

(c) 2005 Thomson Derwent

\*File 350: For more current information, include File 331 in your search.

Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2005/Jul(Updated 051102)

(c) 2005 JPO & JAPIO

Set	Items	Description
S1	93	S1:S15
S2	44	S1 AND (LATERAL?(2N)DIFFUS? OR LATERAL?()DIFFUS?()MOSFET OR LATERAL?()DIFFUS?()METAL()OXID? OR LDMOS OR LDMOST OR METAL(-)OXID?() (TRANSIST? OR SEMICONDUCT?))
S3	2	S2 AND (MULTI? OR FIRST OR ONE OR TWO OR SECOND OR DUAL) (2-N)GATE???
S4	42	S2 NOT S3
S5	1	S4 AND GATE???(2N)FINGER? ?
S6	41	S4 NOT S5
S7	1	S6 AND (RF OR RADIO(3N)FREQUENC????? OR RADIOFREQUENC????? OR MAGNET?(3N)FIELD? OR (RF OR RADIO()FREQUENC????? OR RADIOFREQUENC?????) ()POWER???)
S8	40	S6 NOT S7
S9	9	S8 AND (IMPURIT????????? OR DOPA????????? OR DOPE??? OR DOPI-NG OR MIXTURE? ? OR BLEND? OR ADMIX? OR COMMIX? OR IMMIX? OR -INTERMIX? OR MIX? OR IMPREGNAT? OR COMPOSIT? OR COMPN? OR COM-PSN? OR FORMULAT? OR INTERSPER? OR AMALGAM?)
S10	9	IDPAT (sorted in duplicate/non-duplicate order)
S11	9	IDPAT (primary/non-duplicate records only)
S12	31	S8 NOT S9
S13	1	S12 AND SINKER? ?
S14	30	S12 NOT S13
S15	0	S14 AND METAL?(2N) (CLAMP? ? OR RUNNER? ?)
S16	30	S14
S17	30	IDPAT (sorted in duplicate/non-duplicate order)
S18	28	IDPAT (primary/non-duplicate records only)

## SYSTEM:OS - DIALOG OneSearch

File 2:INSPEC 1898-2005/Nov W1  
(c) 2005 Institution of Electrical Engineers

\*File 2: Archive data back to 1898 has been added to File 2.

File 6:NTIS 1964-2005/Nov W1  
(c) 2005 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1970-2005/Nov W1  
(c) 2005 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2005/Nov W2  
(c) 2005 Inst for Sci Info

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
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File 35:Dissertation Abs Online 1861-2005/Oct  
(c) 2005 ProQuest Info&Learning

File 65:Inside Conferences 1993-2005/Nov W2  
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File 94:JICST-EPlus 1985-2005/Sep W2  
(c)2005 Japan Science and Tech Corp(JST)

File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Oct  
(c) 2005 The HW Wilson Co.

File 144:Pascal 1973-2005/Nov W1  
(c) 2005 INIST/CNRS

File 305:Analytical Abstracts 1980-2005/Nov W2  
(c) 2005 Royal Soc Chemistry

\*File 305: Alert feature enhanced for multiple files, duplicate removal, customized scheduling. See HELP ALERT.

File 315:ChemEng & Biotec Abs 1970-2005/Oct  
(c) 2005 DECHEMA

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200573  
(c) 2005 Thomson Derwent

\*File 350: For more current information, include File 331 in your search.  
Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2005/Jul(Updated 051102)  
(c) 2005 JPO & JAPIO

File 344:Chinese Patents Abs Aug 1985-2005/May  
(c) 2005 European Patent Office

File 371:French Patents 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv.

\*File 371: This file is not currently updating. The last update is 200209.

File 23:CSA Technology Research Database 1963-2005/Nov  
(c) 2005 CSA.

File 987:TULSA (Petroleum Abs) 1965-2005/Nov W1  
(c)2005 The University of Tulsa

\*File 987: GR (Greece), IS (Iceland), SG (Singapore), and SI (Slovenia)  
have been added to AC=.

Set	Items	Description
S1	2252	AU=(JOHANSSON, J? OR JOHANSSON J? OR EKENSTAM, N? OR EKENS-TAM N?)
S2	6	S1 AND (LATERAL?(2N)DIFFUS? OR LATERAL?()DIFFUS?() (MOSFET - OR MOS) OR LATERAL?()DIFFUS?()METAL()OXID? OR LDMOS OR LDMOST OR METAL()OXID?() (TRANSIST? OR SEMICONDUCT?))
S3	6	RD (unique items)
S4	2246	S1 NOT S2
S5	0	S4 AND GATE??? (2N)FINGER? ?
S6	28	S4 AND (RF OR RADIO(3N)FREQUENC????? OR RADIOFREQUENC????? OR MAGNET?(3N)FIELD? OR (RF OR RADIO()FREQUENC????? OR RADIOFREQUENC?????)() (POWER??? OR LDMOS))
S7	18	RD (unique items)
S8	0	S7 AND (METAL? OR SINGLE) (2N) (LAYER??? OR FILM??? OR COAT?- ?? OR SPACER??? OR INTERLAYER???? OR INTER()LAYER?????)
S9	0	S7 AND METAL?(2N) (CLAMP? ? OR RUNNER? ?)
S10	189060	LATERAL?(2N)DIFFUS? OR LATERAL?()DIFFUS?() (MOSFET OR MOS) - OR LATERAL?()DIFFUS?()METAL()OXID? OR LDMOS OR LDMOST OR METAL()OXID?() (TRANSIST? OR SEMICONDUCT?)
S11	74924	(MULTI? OR FIRST OR ONE OR TWO OR SECOND OR DUAL) (2N)GATE?- ??
S12	839	GATE??? (2N)FINGER? ?
S13	189	FINGER? ? (2N)INTERCONNECT????
S14	1021	S12:S13
S15	1693093	RF OR RADIO(3N)FREQUENC????? OR RADIOFREQUENC????? OR MAGNET?(3N)FIELD? OR (RF OR RADIO()FREQUENC????? OR RADIOFREQUENC-?????)() (POWER??? OR LDMOS)
S16	1841657	(FIRST OR ONE OR TWO OR SECOND OR SOURC? OR DRAIN????) (2N)- (REGION? ? OR AREA? ? OR PART???? OR PORTION??? OR SEGMENT??? OR SECTION??? OR CHANNEL???? OR TRENCH? OR GROOVE? OR BURIED - OR VESSEL?)
S17	3487	METAL?(2N) (CLAMP? ? OR RUNNER? ?)
S18	722518	(METAL? OR SINGLE) (2N) (LAYER??? OR FILM??? OR COAT??? OR SPACER??? OR INTERLAYER???? OR INTER()LAYER?????)
S19	4268	SINKER? ?
S20	11813850	(IMPURIT????????? OR DOPA????????? OR DOPE??? OR DOPING OR MIXTURE? ? OR BLEND? OR ADMIX? OR COMMIX? OR IMMIX? OR INTERMIX? OR MIX? OR IMPREGNAT? OR COMPOSIT? OR COMPN? OR COMPSN? OR FORMULAT? OR INTERSPER? OR AMALGAM?)
S21	5474	S10 AND S11
S22	12	S21 AND S14
S23	8	RD (unique items)
S24	5462	S21 NOT S22
S25	64	S24 AND S15
S26	27	S25 AND S16
S27	4	S25 AND (S17 OR S18)
S28	4	RD (unique items)
S29	23	S26 NOT S27
S30	0	S29 AND S19
S31	8	S29 AND S20
S32	8	RD (unique items)
S33	15	S29 NOT S31
S34	14	RD (unique items)
S35	0	S34 AND FINGER? ?
S36	1	S34 AND (LDD OR LATERAL?()DOUBL?()DIFFUS? OR LATERAL?()DOUBLE()DIFFUS?()MOSFET)
S37	13	S34 NOT S36

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S38	27	S14 AND S18
S39	0	S38 AND S17
S40	4	S38 AND S10
S41	4	RD (unique items)
S42	85	S17 AND S18
S43	0	S42 AND S19
S44	14	S42 AND S16
S45	0	S44 AND S15
S46	0	S44 AND S12
S47	5	S44 AND S20
S48	5	RD (unique items)
S49	10263	S10 AND S18
S50	3	S49 AND S17
S51	3	RD (unique items)